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ture media. This experiment is the natural correlative of those which have shown that many ova may be stimulated artificially to produce embryos. In these studies the sperm cells of the chicken were used and were cultivated in egg yolk, egg albumen, chicken blood serum, and Ringer solutions.

It was found that spermatozoa did undergo some transformations. These include the shortening of the head, the formation of a vesicle about the head and middle piece, the dispersal thru the vesicle of the matter of the head, the gradual reformation of the chromatin into objects suggestive of chromosomes.

On the whole, while no evidence has been found that division can take place in the sperm outside the egg, the results thus far may be comprhended in the statement that the sperm is able to organize itself into something much resembling a nucleus.

ADAPTATION OF FISH TO TEMPERATURE

Loeb and Wasteneys (*Jour. Exp. Zool.*, May, 1912), inquire into the phenomena associated with adaptation to changed temperatures. It has long been known that animals may gradually be rendered immune to temperatures which applied outright would cause death.

In these experiments it was found that fish could be rendered immune to the hurtful effects of a sudden transfer to water of a temperature of 35°C by being placed for 30 hours or more in a temperature of 27°. Similarly they may be made immune to a temperature of 39°C. The ability to endure water at 35° was not lost or weakened by keeping the fish at a temperature of 10°-14° for 33 days after having been acclimatized to water at 27°; nor by keeping them for two days at a temperature of 0°.4C, after their two days exposure to 27°.

It was also found that fish could stand a sudden increase of temperature better with a higher concentration of sea-water up to a certain maximum solution—beyond which the ability again declined. This is thought to be due to specific effects of the salts rather than to changed osmotic conditions.

EFFECT OF CONTACT AND TENSION ON TENDRILS

Brush (*Bot. Gaz.* June, 1912), finds that the tendrils of Passi-